ANSWER 1 OF 2 MEDLINE on STN DUPLICATE 1

ACCESSION NUMBER: 1998197329 MEDLINE DOCUMENT NUMBER: PubMed ID: 9536266

TITLE: Inhibition of HIV-1 replication by combined expression of

gag dominant negative mutant and a human ribonuclease in a

tightly controlled HIV-1 inducible vector. Cara A; Rybak S M; Newton D L; Crowley R;

Rottschafer S E; Reitz M S Jr; Gusella G L

CORPORATE SOURCE: Basic Research Laboratory, NCI, NIH, Bethesda, MD, USA.

SOURCE: Gene therapy, (1998 Jan) 5 (1) 65-75.

Journal code: 9421525. ISSN: 0969-7128.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

AUTHOR:

FILE SEGMENT: Priority Journals; AIDS

ENTRY MONTH: 199804

ENTRY DATE: Entered STN: 19980422

Last Updated on STN: 19980422 Entered Medline: 19980415

An HIV-1-based expression vector has been constructed that produces protective genes tightly regulated by HIV-1 Tat and Rev proteins. The vector contains either a single protective gene (HIV-1 gag dominant negative mutant (delta-gag)) or a combination of two different protective genes (delta-gag and eosinophil-derived neurotoxin (EDN), a human ribonuclease) which are expressed from a dicistronic mRNA. After stable transfection of CEM T cells and following challenge with HIV-1, viral production was completely inhibited in cells transduced with the vector producing both delta-gag and EDN and delayed in cells producing delta-gag alone. In addition, cotransfection of HeLa-Tat cells with an infectious HIV-1 molecular clone and either protective vector demonstrated that the HIV-1 packaging signals present in the constructs were functional and allowed the efficient assembly of the protective RNAs into HIV-1 virions, thus potentially transmitting protection to the HIV-1 target

L25 ANSWER 2 OF 2 MEDLINE on STN DUPLICATE 2

ACCESSION NUMBER: 96211385 MEDLINE DOCUMENT NUMBER: PubMed ID: 8649999

TITLE: High-level production of recombinant proteins in CHO cells

using a dicistronic DHFR intron expression

vector.

AUTHOR: Lucas B K; Giere L M; DeMarco R A; Shen A; Chisholm V;

Crowley C W

CORPORATE SOURCE: Department of Molecular Biology, Genentech, Inc., South San

Francisco, CA 94080-4990, USA.

SOURCE: Nucleic acids research, (1996 May 1) 24 (9) 1774-9.

Journal code: 0411011. ISSN: 0305-1048.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

cells.

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199607

ENTRY DATE: Entered STN: 19960805

Last Updated on STN: 19960805 Entered Medline: 19960725

AB We have constructed expression vectors for Chinese hamster ovary (CHO) cells that produce both selectable marker and recombinant cDNA from a single primary transcript via differential splicing. These vectors produce stable CHO cell clones that, when pooled, produce abundant amounts of secreted recombinant proteins compared with the amounts produced by conventional expression approaches that have selectable marker and the cDNA of interest under control of separate transcription units. Our vectors divert most of the transcript to product expression while linking

it, at a fixed ratio, to dihydrofolate reductase (DHFR) expression to allow selection of stable transfectants. Pools of clones with increased expression of the product gene can be efficiently generated by selection in methotrexate. The high level of expression from pools allows convenient and rapid production of milligram amounts of recombinant proteins.

=>